

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Spring 2014 Levee Inspection Results****Sutter Maintenance Yard East Levee Sacramento River**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2014 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Left	20.39
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/13/2014 - 03/13/2014			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start		Rating **	A	Issue No.	31
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				°
					°
DWR ID	DWR_ST0003_01_s _ 2013_31				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	32
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				°
					°
DWR ID	DWR_ST0003_01_s _ 2013_32				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	33
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				°
					°
DWR ID	DWR_ST0003_01_s _ 2013_33				
Action/Comments					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	0.00	Rating **	M	Issue No.	27
LM End	11.41	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.266315 °	39.265730 °
				-122.020682 °	-122.014925 °
DWR ID					
Action/Comments					
Inspector Comments: 2009 - Slump in the middle of the section has left a vertical section on the bank. 2010 - Old cobble site unraveling, site extended downstream. 2013: No observed changes. [2013 Site ID: SAC_151-0_R]					

Photo 1 of 1 : USACE2013A_SAC_151-0_R_6.jpg



USACE 2013 Photo #1

LM Start	0.08	Rating **	U	Issue No.	3
LM End	0.14	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.194978 °	39.195022 °
				-121.937502 °	-121.938563 °
DWR ID	DWR_ST0003_01_s_2012_3				
Action/Comments					
Building					

Photo 1 of 1 : rduffey_s_20140304_646.jpg



View of a old building next to the landside toe.

LM Start	1.11	Rating **	U	Issue No.	34
LM End	1.11	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.194105 °	39.194105 °
				121.953558 °	121.953558 °
DWR ID	DWR_ST0003_01_s_2013_34				
Action/Comments					
Pipe					
Inspector Comments: The pipe has rusted apart at the toe of the levee.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	1.11	Rating **	M	Issue No.	8
LM End	1.11	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.194106 °	39.194106 °
				-121.953512 °	-121.953512 °
DWR ID	DWR_ST0003_01_s _ 2014_8				
Action/Comments					
Inspector Comments: FS_ID:26125					
EP_NO: 9527					
Repair Type:					
Crossing Status:					
UCIP Comments: Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation 7/29/2013 Pipe does not appear to be abandoned. On the WS it appears that a smaller pipe was sleeved into the 18in. pipe and then the difference capped and welded. Pump was not running at time of inspection but LS ditch near outlet was wet. LS slope damage and leaky pipe marker are still present 2/30/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 18-inch steel pipe through the levee 12.5 feet below the crown. Gate valve on the waterward side. Vertical pump on the bank. (ABO No. 9527 - Butte Creek Farms). O&M manual 136, revision May 2011					
FS Date: 1/2/2014 7:14:45 AM					

Photo 1 of 1 : UCIP_5066.jpg



Waterside view: overview

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	1.85	Rating **	M	Issue No.	13
LM End	1.85	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.188164 °	39.188164 °
				-121.964721 °	-121.964721 °
DWR ID	DWR_ST0003_01_s_2014_13				

Action/Comments

Inspector Comments: FS_ID:26128

EP_NO: 9543

Repair Type:

Crossing Status:

UCIP Comments: Sloughing LS slope and river bank. DWR marking for leaky pipe 7/29/2013 Same as last inspection 12/30/2013 Same as last inspection.

FIELD_STRUCT_DESC: 14-inch steel pipe encased in concrete through the levee 12.5 feet below the crown. Slant pump mounted on pile structure on berm. Slide gate in 48-inch riser on berm, walkway to pump. Discharges into concrete distribution box at landward toe. Flap gate on the landward end. (ABO No. 9543 - Harada). O&M manual 136, revision May 2011

FS Date: 1/2/2014 7:47:25 AM

Photo 1 of 1 : UCIP_5074.jpg



Waterside view: abandoned pump station.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	3.35	Rating **	M	Issue No.	23
LM End	3.35	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.198180 °	39.198180 °
				-121.985557 °	-121.985557 °
DWR ID	DWR ST0003 01 s 2014 23				

Photo 1 of 1 : UCIP_5085.jpg



Action/Comments					
Inspector Comments: FS_ID:26146					
EP_NO: 9539					
Repair Type:					
Crossing Status:					
UCIP Comments: - it seems that the system was originally designed for drainage, later converted into irrigation system: 6-inch GI pipe and 18-inch PVC pipes inserted into culvert from LS (not plugged)WS opening is plugged with concrete,probably pump is located 350 ft from levee as seen from Google Earth Map/29/2013 Same as last inspection12/30/2013 Same as last inspection.					
FIELD_STRUCT_DESC: A 30-inch by 36-inch concrete culvert drain through the levee. Gates with 2-inch flashboards on the waterward end. 18-inch PVC pipe through culvert. 13.6 ft invert below crown. (ABO No. 9539 - Locvich). O&M manual 136, revision May 2011					
FS Date: 1/2/2014 8:05:57 AM					

Waterside view: plugged concrete structure and siphon breakers

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	3.79	Rating **	M	Issue No.	24
LM End	3.79	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.204141 °	39.204141 °
				-121.982698 °	-121.982698 °
DWR ID	DWR_ST0003_01_s _ 2014_24				
Action/Comments					
Inspector Comments: FS_ID:26395					
EP_NO: 9501					
Repair Type:					
Crossing Status:					
UCIP Comments: Concrete pit on WS berm. Concrete distribution box on LS silted and erosion around the box. Slope failure/ transverse cracks on LS levee slope. Two depressions on WS berm. 7/29/2013 Repairs to LS slope and pipe are in progress. Nothing has been done yet to the WS depression. 12/30/2013 Repairs to LS and WS slopes have been completed. Not sure if this is an active or abandoned crossing. LS distribution box is still slited in.					
FIELD_STRUCT_DESC: 16-inch steel pipe through the levee with pump house over concrete pit on berm. No control valves visible. Discharges into concrete box at the landward toe. (ABO No. 9501 - Mayfair Farms). According to Permit 9501A, it is an existing abandoned pipe located at HLM 4.37.					
O&M manual 136, revision May 2011.					
FS Date: 1/6/2014 9:58:38 AM					

Photo 1 of 1 : UCIP_5272.jpg



Waterside view: overview of pipe and pump house

LM Start	4.19	Rating **	M	Issue No.	11
LM End	4.19	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.208935 °	39.208935 °
				-121.985310 °	-121.985310 °
DWR ID	DWR_ST0003_01_s _ 2012_11				
Action/Comments					
Building					

Photo 1 of 1 : rduffey_s_20140304_648.jpg



View of the trailer next to the W/S toe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	4.38	Rating **	M	Issue No.	26
LM End	4.38	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210247 °	39.210247 °
				-121.988238 °	-121.988238 °
DWR ID	DWR_ST0003_01_s _ 2014_26				
Action/Comments					
Inspector Comments: FS_ID:26155					
EP_NO: 9501A					
Repair Type:					
Crossing Status:					
UCIP Comments: Motor and pump on berm. Appears an abandoned crossing. Leaky valve on LS slope. Pipe removed and laying on berm. No electric connection to the pump. 7/29/2013 Not an abandoned crossing. Pump is connected to WS pipe end at water level and is pumping water to LS and then goes underground to an irrigation ditch about 100yds. upstream. Pump and pipes are disconnected and pulled up to WS toe for high water season. Leaky valve on LS shoulder does not appear to have been fixed 2/30/2013 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 10-inch diameter asphalt coated steel pipe through the levee 5 feet below the crown. Siphon breaker on the landward shoulder. (ABO No. 9501A - Mayfair Packing).					
FS Date: 1/2/2014 8:33:19 AM					

Photo 1 of 1 : UCIP_5089.jpg



Waterside view: overview of pump and abandoned pipe

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	4.38	Rating **	M	Issue No.	35
LM End	4.38	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210257 °	39.210257 °
				-121.988250 °	-121.988250 °
DWR ID	DWR_ST0003_01_s _ 2014_35				

Action/Comments

Inspector Comments: FS_ID:26156

EP_NO: 9501

Repair Type:

Crossing Status:

UCIP Comments: Need to be properly abandoned. Transverse cracks on levee road. Also found a concrete outlet on LS. It is not clear whether this passes through the levee. 7/29/2013 Same as last inspection. 12/30/2013 Same as last inspection.

FIELD_STRUCT_DESC: Abandoned 16-inch steel pipe through the levee 13.9 feet below the crown. Gate valve and pump in pump house on berm. Flap gate and concrete distribution box on the landward end. (ABO No. 9501 - Mayfair Farms). O&M manual 136, revision May 2011. FS Date: 1/2/2014 8:35:50 AM

Photo 1 of 1 : UCIP_5101.jpg



Waterside view: overview

LM Start	4.39	Rating **	M	Issue No.	37
LM End	4.39	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210280 °	39.210280 °
				-121.988284 °	-121.988284 °
DWR ID	DWR_ST0003_01 s _ 2014_37				

Action/Comments

Inspector Comments: FS_ID:26157

EP_NO: N/A

Repair Type:

Crossing Status:

UCIP Comments: Debris and deteriorated concrete. Gate valve in surge tank. 7/29/2013 Same as last inspection. 12/30/2013 Same as last inspection.

FIELD_STRUCT_DESC: 24 inch pipe, 26 ft invert below crown, Slide Gate ws. O&M manual 136, revision May 2011.

FS Date: 1/2/2014 8:36:59 AM

Photo 1 of 1 : UCIP_5108.jpg



Waterside view: overview of concrete surge box

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	4.59	Rating **	M	Issue No.	38
LM End	4.59	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.212627 °	39.212627 °
				-121.990413 °	-121.990413 °
DWR ID	DWR_ST0003_01_s _ 2014_38				

Action/Comments

Inspector Comments: FS_ID:26158

EP_NO: 10935

Repair Type:

Crossing Status:

UCIP Comments: Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope 7/29/2013 Erosion near LS shoulder may start affecting the roadway if it gets any worse 2/30/2013 Same as last inspection.

FIELD_STRUCT_DESC: 24-inch steel pipe through the levee 4.0 feet below the crown. Slant pump on the waterward berm. A siphon breaker is installed on the apex of the pipe and off the levee crown on landside. (App. No. 10935 - Mayfair Farms).

FS Date: 1/2/2014 8:39:01 AM

Photo 1 of 1 : UCIP_5113.jpg



Waterside view: overview of pump station

LM Start	4.66	Rating **	U	Issue No.	12
LM End	4.84	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.213265 °	39.213265 °
				-121.991672 °	-121.991672 °
DWR ID	DWR_ST0003_01 s _ 2012_12				

Action/Comments

Building

Photo 1 of 1 : rduffey_s_20140304_649.jpg



View of the barn on the large crown of the levee.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	4.66	Rating **	M	Issue No.	15
LM End	4.66	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.213271 °	39.213271 °
				-121.991676 °	-121.991676 °
DWR ID	DWR_ST0003_01_s _ 2013_15				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : rduffey_s_20140304_650.jpg



View of the erosion along the waterside slope.

LM Start	4.81	Rating **	U	Issue No.	20
LM End	4.81	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.214168 °	39.214168 °
				-121.993515 °	-121.993515 °
DWR ID	DWR_ST0003_01_s _ 2012_20				
Action/Comments					
Building					

Photo 1 of 1 : rduffey_s_20140304_653.jpg



View of the building next to the L/S toe.

LM Start	4.81	Rating **	M	Issue No.	22
LM End	4.81	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.214218 °	39.214218 °
				-121.993682 °	-121.993682 °
DWR ID	DWR_ST0003_01_s _ 2012_22				
Action/Comments					
Landscaping					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	4.84	Rating **	M	Issue No.	18
LM End	4.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.214232 °	39.214215 °
				-121.993805 °	-121.993810 °
DWR ID	DWR_ST0003_01_s _ 2012_18				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	4.99	Rating **	M	Issue No.	39
LM End	4.99	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214970 °	39.214970 °
				-121.997177 °	-121.997177 °
DWR ID	DWR_ST0003_01_s _ 2014_39				
Action/Comments					
Inspector Comments: FS_ID:26162					
EP_NO: 2904					
Repair Type:					
Crossing Status:					
UCIP Comments: Surge box on WS and distribution box across the county road on LS. Abandoned pump station and electrical panel on WS. A concrete pump pit on WS/29/2013 Portable tow-pump lowered down WS berm to water level and is pumping water into concrete surge box on WS and the filling the irrigation ditch on LS. Sink hole with standing water that is present above the outlet pipe for the WS surge box. This may indicate a leaking pipe or cracked concrete 12/30/2013 Sink Hole above pipe on WS still present. Pipe end inside of WS surge box shows heavy signs of rust and corrosion. Recommend having an internal camera inspection completed on pipe. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee 18.4 feet below the crown. Slide gate in corrugate metal pipe riser on waterward shoulder, pump and concrete pump pit on the waterward bank. Concrete surge box on the waterward berm. Discharges into irrigation ditch on the opposite side of the county road. (App. No. 2904 - Arnold). Application was for an existing pumping system. O&M manual 136, revision May 2011.					
FS Date: 1/2/2014 8:47:38 AM					

Photo 1 of 1 : UCIP_5121.jpg



Waterside view: CMP riser and surge box

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	5.38	Rating **	M	Issue No.	40
LM End	5.38	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.217099 °	39.217099 °
				-122.003778 °	-122.003778 °
DWR ID	DWR ST0003 01 s 2014 40				

Action/Comments					
Inspector Comments: FS_ID:26166					
EP_NO: 9514					
Repair Type:					
Crossing Status:					
UCIP Comments: - Water transfer ditch and CMP riser on WS/23/13 8inch pvc running through pipe preventing slide gate from closing. No positive pipe closure for high water season. Stem on WS screw gate is bent 2/18/2013 Same as last inspection. Levee inspections is working with land owner to solve this issue.					
FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, slide gate in corrugated metal pipe riser. Concrete headwall on waterward berm, pump on riverbank. Discharges in field at landward toe. Irrigation ditch across waterward berm to headwall. (ABO No. 9514 - Boggs). Pipe invert 11.0 ft below crown. O&M manual 136, revision May 2011.					
FS Date: 1/2/2014 8:58:19 AM					

Photo 1 of 1 : UCIP_5133.jpg



Waterside view: CMP riser with slide gate

* Location LS : Land Side WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	6.02	Rating **	M	Issue No.	41
LM End	6.02	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.220701 °	39.220701 °
				-122.002538 °	-122.002538 °
DWR ID	DWR_ST0003_01_s _ 2014_41				
Action/Comments					
Inspector Comments: FS_ID:26167					
EP_NO: 9514					
Repair Type:					
Crossing Status:					
UCIP Comments: 36-inch CMP found instead of 30-inch CMP. LS pipe tampered 7/23/2013 8inch PVC pipe ran through 36inch CMP preventing screw gate from closing for high water season 12/18/2013 Same as last inspection. Levee inspections is working with land owner to solve the issue.					
FIELD_STRUCT_DESC: 36-inch corrugated metal drainpipe through the levee 12.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. (ABO No. 9514 - Boggs). O&M manual 136, revision May 2011.					
FS Date: 1/2/2014 8:59:39 AM					

Photo 1 of 1 : UCIP_5146.jpg



Waterside view: overview

LM Start	6.33	Rating **	M	Issue No.	14
LM End	6.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.223540 °	39.223540 °
				-121.999028 °	-121.999028 °
DWR ID	DWR_ST0003_01_s _ 2012_14				
Action/Comments					
Prunings					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	6.34	Rating **		Issue No.	53
LM End	6.34	Issue Type +	--	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.223563 °	39.223563 °
				-121.999048 °	-121.999048 °
DWR ID	DWR_ST0003_01_s_2014_53				
Action/Comments					
Prunings					

Photo 1 of 1 : rduffey_s_20140317_125.jpg



View of the prunings along the landside toe.

LM Start	6.34	Rating **	M	Issue No.	42
LM End	6.34	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.223796 °	39.223796 °
				-121.999014 °	-121.999014 °
DWR ID	DWR_ST0003_01_s_2014_42				
Action/Comments					
Inspector Comments: FS_ID:26168					
EP_NO: 9530					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe outlet on WS partially burried, it needs cleaning7/23/2013 Same as last inspection12/18/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 30-inch corrugated metal drainpipe through the levee 15.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. (ABO No. 9530 - Halsey).					
FS Date: 1/2/2014 9:00:48 AM					

Photo 1 of 1 : UCIP_5155.jpg



Waterside view: CMP riser with slide gate

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	6.42	Rating **	M	Issue No.	21
LM End	6.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.224982 °	39.225013 °
				-121.998600 °	-121.998585 °
DWR ID	DWR_ST0003_01_s_2012_21				
Action/Comments					
Material					

Photo 1 of 1 : rduffey_s_20140304_654.jpg



View of the material & garbage along the toe.

LM Start	6.80	Rating **	M	Issue No.	19
LM End	6.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.228295 °	39.228295 °
				-121.998571 °	-121.998571 °
DWR ID	DWR_ST0003_01_s_2013_19				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : rduffey_s_20140304_652.jpg



Erosion along the waterside crown.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	7.72	Rating **	M	Issue No.	43
LM End	7.72	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.239458 °	39.239458 °
				-121.993398 °	-121.993398 °
DWR ID	DWR_ST0003_01_s_2014_43				
Action/Comments					
Inspector Comments: FS_ID:26190					
EP_NO: 9532					
Repair Type:					
Crossing Status:					
UCIP Comments: Silted concrete box on WS. Depression/erosion around concrete box on WS/23/2013 Same as last inspection12/18/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 3-foot by 4-foot concrete box culvert drain through the levee 11.6 feet below the crown. Slide gate in concrete box on the waterward slope. (ABO No. 9532 - Martin). O&M manual 136, revision May 2011.					
FS Date: 1/2/2014 9:35:14 AM					

Photo 1 of 1 : UCIP_5159.jpg



Waterside view: concrete box with slide gate

LM Start	8.32	Rating **	M	Issue No.	44
LM End	8.32	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.246317 °	39.246317 °
				-121.998825 °	-121.998825 °
DWR ID	DWR_ST0003_01_s_2014_44				
Action/Comments					
Inspector Comments: FS_ID:26193					
EP_NO: 9529					
Repair Type:					
Crossing Status:					
UCIP Comments: Looks abandoned. CMP riser with slide gate on WS.					
Concrete distribution box on LS- full with silt/23/2013 Same as last inspection12/18/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, slide gate CMP riser on the waterward slope. Concrete box at the landward toe. Pipe invert 12.8 ft below crown. (ABO No. 9529 - Dorwood Ranch)O&M manual 136, revision May 2011.					
FS Date: 1/2/2014 9:40:47 AM					

Photo 1 of 1 : UCIP_5162.jpg



Landside view: overview of concrete box

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	8.76	Rating **	U	Issue No.	2
LM End	8.76	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.252260 °	39.252260 °
				-121.997721 °	-121.997721 °
DWR ID	DWR_ST0003_01_s _ 2012_2				
Action/Comments					
Building					

Photo 1 of 1 : rduffey_s_20140304_645.jpg



View of the building next to the toe of the levee.

LM Start	9.23	Rating **	C	Issue No.	1
LM End	9.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.257977 °	39.257977 °
				-122.000322 °	-122.000322 °
DWR ID	DWR_ST0003_01_s _ 2012_1				
Action/Comments					
Prunings					

No Photos

LM Start	10.27	Rating **	M	Issue No.	4
LM End	10.27	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.270431 °	39.270431 °
				-121.999782 °	-121.999782 °
DWR ID	DWR_ST0003_01_s _ 2012_4				
Action/Comments					
Building					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	10.36	Rating **	M	Issue No.	5
LM End	10.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.270503 °	39.270503 °
				-122.001339 °	-122.001339 °
DWR ID	DWR_ST0003_01_s _ 2012_5				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	10.37	Rating **	A/W	Issue No.	54
LM End	10.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.270541 °	39.270541 °
				-122.001577 °	-122.001577 °
DWR ID	DWR_ST0003_01_s _ 2014_54				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : rduffey_s_20140317_127.jpg



View of the active rodent hole along the landside slope.

LM Start	11.51	Rating **	M	Issue No.	28
LM End	11.51	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.279910 °	39.283853 °
				-122.018221 °	-122.016113 °
DWR ID					
Action/Comments					
Inspector Comments: 2008 - Large rotational/mass failure in the bank with tree slump. 2009 - Minimal new erosion, the tree is leaning further into the river. 2011 - Site extended downstream. 2012 - Minor new erosion and tree roots are further exposed. 2013: No observed changes. [2013 Site ID: SAC_152-6_L]					

Photo 1 of 1 : USACE2013A_SAC_152-6_L_8.jpg



USACE 2013 Photo #1

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	11.67	Rating **	M	Issue No.	6
LM End	11.90	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.282064 °	39.285084 °
				-122.016517 °	-122.014815 °
DWR ID	DWR_ST0003_01_s _ 2012_6				
Action/Comments					
Ditch					

No Photos

LM Start	11.83	Rating **	M	Issue No.	29
LM End	11.83	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.284568 °	39.285298 °
				-122.015690 °	-122.015208 °
DWR ID					
Action/Comments					
Inspector Comments: 2006 - Large rotational/mass failure in the bank with tree slump. Tough clayey toe material. 2007 - Site is between stone revetments with a pump station at the downstream end. 2010 - Erosion is into the levee toe. 2011 - Minor new erosion. 2012 - Minor new erosion. 2013: No observed changes. [2013 Site ID: SAC_152-8_L]					

Photo 1 of 1 : USACE2013A_SAC_152-8_L_1.jpg



USACE 2013 Photo #1

LM Start	11.95	Rating **	M	Issue No.	7
LM End	12.18	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.285658 °	39.288978 °
				-122.014574 °	-122.013892 °
DWR ID	DWR_ST0003_01_s _ 2012_7				
Action/Comments					
Ditch					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	12.06	Rating **	M	Issue No.	45
LM End	12.06	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.287251 °	39.287251 °
				-122.014076 °	-122.014076 °
DWR ID	DWR ST0003 01 s 2014 45				

Action/Comments					
Inspector Comments: FS_ID:26215					
EP_NO: 9514					
Repair Type:					
Crossing Status:					
UCIP Comments: Gate valve in CMP riser not visible. Flap gate in concrete distribution box on LS not visible/accessible. Looks cleaning required inside concrete surge tank on WS due to silting/29/2013					
Pump running and WS surge tank was full of water so not sure if silt was cleaned out. LS flap gate was visible and is in good condition 12/30/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.1 feet below the crown, pump house on the waterward slope. Gate valve in corrugated metal riser at waterward toe. Flap gate in concrete distribution box at the landward toe. (ABO No. 9514 - Boggs). O&M manual 136, revision May 2011.					
FS Date: 1/2/2014 1:35:53 PM					

Photo 1 of 1 : UCIP_5167.jpg



Waterside view: steel pipe, pump, surge box & CMP riser

* Location LS : Land Side WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	12.43	Rating **	M	Issue No.	46
LM End	12.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.292608 °	39.292608 °
				-122.013483 °	-122.013483 °
DWR ID	DWR_ST0003_01_s_2014_46				
Action/Comments					

Action/Comments

Inspector Comments: FS_ID:26216

EP_NO: 9513

Repair Type:

Crossing Status:

UCIP Comments: A 2.5 inch GI pipe through 36 inch CMP found. A 2 inch electrical conduit also found 7/29/2013. 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season 12/30/2013 Same as last inspection.

FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee. Slide gate in concrete surge box on berm. Slant pump on riverbank. Pipe invert 16.5 ft below crown. Concrete distribution box at the landward toe. (ABO No. 9513 -Boggs). O&M manual 136, revision May 2011.

FS Date: 1/2/2014 1:36:55 PM

Photo 1 of 1 : UCIP_5175.jpg



Waterside view: overview of slanted pump and shed

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	12.96	Rating **	M	Issue No.	47
LM End	12.96	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.300140 °	39.300140 °
				-122.013599 °	-122.013599 °
DWR ID	DWR_ST0003_01_s _ 2014_47				
Action/Comments					
Inspector Comments: FS_ID:26220					
EP_NO: 9510					
Repair Type:					
Crossing Status:					
UCIP Comments: Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection 7/23/2013. Water was flowing from the WS to LS ditch. Not sure where water flow was originating. All erosion problems are still present 12/19/2013. Same as last inspection.					
FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.0 feet below the crown. Slide gate in 36-inch corrugated metal riser on the waterward slope. Concrete box on the waterward side. Pump mounted on waterward bank. (ABO No. 9510 Forry). O&M manual 136, revision May 2011.					
FS Date: 1/2/2014 1:46:51 PM					

Photo 1 of 1 : UCIP_5186.jpg



Waterside view: CMP riser on levee slope.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	13.37	Rating **	M	Issue No.	48
LM End	13.37	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.306065 °	39.306065 °	
			-122.013112 °	-122.013112 °	

Photo 1 of 1 : UCIP_5193.jpg



DWR ID	DWR_ST0003_01_s _ 2014_48
Action/Comments	
Inspector Comments: FS_ID:26221	
EP_NO: N/A	
Repair Type:	
Crossing Status:	
UCIP Comments: Outlet pipe silted on WS. Inlet structure damaged on LS. Not properly abandoned 7/23/2013 Same as last inspection 12/19/2013 Same as last inspection.	
FIELD_STRUCT_DESC: Abandoned 48-inch corrugated metal drainpipe through the levee, 16.5 feet below the crown. Slide gate in 60-inch corrugated metal pipe riser on the waterward slope. Landward end of pipe on east side of River Road. O&M manual 136, revision May 2011.	
FS Date: 1/2/2014 1:48:59 PM	

Waterside view: CMP riser with slide gate

LM Start	13.47	Rating **	M	Issue No.	9
LM End	13.66	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.307448 °	39.310231 °
				-122.013037 °	-122.012912 °
DWR ID	DWR_ST0003_01_s _ 2012_9				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : rduffey_s_20140304_647.jpg



View of the erosion along the W/S toe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	14.55	Rating **	U	Issue No.	25
LM End	14.55	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.322254 °	39.322254 °
				-122.015985 °	-122.015985 °
DWR ID	DWR_ST0003_01_s _ 2013_25				
Action/Comments					
Pipe					

Photo 1 of 1 : rduffey_s_20140304_655.jpg



View of the unauthorized pipe placed inside the drain pipe.

LM Start	15.47	Rating **	M	Issue No.	49
LM End	15.47	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.333868 °	39.333868 °
				-122.022243 °	-122.022243 °
DWR ID	DWR_ST0003_01_s _ 2014_49				
Action/Comments					

Photo 1 of 1 : UCIP_5203.jpg



Waterside view: water inlet /surge box

Inspector Comments: FS_ID:26227
EP_NO: 9506
Repair Type:
Crossing Status:
UCIP Comments: Water full on inlet and outlet of the structure 7/23/2013 Same as last inspection 12/19/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch pipe through the levee, 16.5 feet below crown. Pump in floodway. Irrigation transfer ditch on the waterward side to concrete surge box at the waterward toe. Slide gates in corrugated metal pipe riser on the waterward slope. Discharge into concrete distribution box at the landward toe. (ABO No. 9506 - Carter). O&M manual 136, revision May 2011.
FS Date: 1/2/2014 2:20:40 PM

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	15.53	Rating **	M	Issue No.	55
LM End	15.53	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.331447 °	39.332716 °
				-122.029440 °	-122.029953 °
DWR ID					
Action/Comments					
Inspector Comments: 2004 - Slowly eroding but near vertical with no vegetation to hold it. 2005 - Erosion is close to levee toe but not into the levee section yet. 2010 - Some new toe scour. 2013: No observed changes. [2013 Site ID: SAC_157-7_R]					

Photo 1 of 1 : USACE2013A_SAC_157-7_R_4.jpg



USACE 2013 Photo #1

LM Start	16.95	Rating **	M	Issue No.	36
LM End	16.95	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.347308 °	39.347308 °
				-122.015264 °	-122.015264 °
DWR ID	DWR_ST0003_01_f_2012_36				
Action/Comments					
Prunings					

Photo 1 of 1 : rduffey_s_20140304_665.jpg



View of the brush pile along the landside toe.

LM Start	17.44	Rating **	M	Issue No.	30
LM End	17.44	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.351311 °	39.351311 °
				-122.009409 °	-122.009409 °
DWR ID	DWR_ST0003_01_s_2013_30				
Action/Comments					
Prunings					

Photo 1 of 1 : rduffey_s_20140304_664.jpg



View of the walnut orchard stumps along the landside toe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	17.45	Rating **	M	Issue No.	136
LM End	17.45	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.351447 °	39.351447 °
				-122.009385 °	-122.009385 °
DWR ID	DWR_ST0003_01_f_2013_136				
Action/Comments					
Prunings					

Photo 1 of 1 : rduffey_s_20140304_666.jpg



View of the prunings at the toe of the levee.

LM Start	18.00	Rating **	M	Issue No.	10
LM End	18.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.358956 °	39.359565 °
				-122.007492 °	-122.006219 °
DWR ID	DWR_ST0003_01_s_2012_10				
Action/Comments					
Firewood					

No Photos

LM Start	18.04	Rating **	M	Issue No.	16
LM End	18.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.359188 °	39.359980 °
				-122.006878 °	-122.004517 °
DWR ID	DWR_ST0003_01_s_2012_16				
Action/Comments					
Equipment					

Photo 1 of 1 : rduffey_s_20140304_651.jpg



View of the equipment and trees next to the landside toe of the levee.

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	18.65	Rating **	M	Issue No.	50
LM End	18.65	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.362866 °	39.362866 °
				-121.997993 °	-121.997993 °
DWR ID	DWR_ST0003_01_s _ 2014_50				
Action/Comments					
Inspector Comments: FS_ID:26240					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: It is not an abandoned crossing. Sloughing at outlet and levee slope is damaged due to sloughing 7/24/2013 Same as last inspection 12/19/2013 Same as last inspection.					
FIELD_STRUCT_DESC: A 36- inch corrugated metal drainpipe through the levee, 20.0 feet below the crown. Slide gate at the waterward toe.					
O&M manual 136, revision May 2011.					
FS Date: 1/2/2014 3:05:54 PM					

Photo 1 of 1 : UCIP_5205.jpg



Waterside view: overview of sliding gate structure

LM Start	18.74	Rating **	M	Issue No.	51
LM End	18.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.364067 °	39.364067 °
				-121.997792 °	-121.997792 °
DWR ID	DWR_ST0003_01_s _ 2014_51				
Action/Comments					
Inspector Comments: FS_ID:26263					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: According to local people, the crossing is functional.					
The gap between 8-inch and 24-inch pipes is grouted with cement. Inlet					
structure is filled with soil 7/24/2013 Same as last					
inspection 12/19/2013 Same as last inspection.					
FIELD_STRUCT_DESC: A 8-inch steel pipe sleeved into 24- inch					
corrugated metal drain pipe through the levee, 19.0 feet below the					
crown. Slide gate at waterward toe and concrete inlet box on landside					
of the levee. O&M manual 136, revision May 2011.					
FS Date: 1/3/2014 6:54:53 AM					

Photo 1 of 1 : UCIP_5217.jpg



Landside view: overview of inlet structure

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/13/2014 03/13/2014	Bob Duffey

LM Start	19.62	Rating **	M	Issue No.	52
LM End	19.62	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.375221 °	39.375221 °
				-121.995878 °	-121.995878 °
DWR ID	DWR_ST0003_01_s_2014_52				

Action/Comments

Inspector Comments: FS_ID:26268

EP_NO: N/A

Repair Type:

Crossing Status:

UCIP Comments: Slide Gate WS not found. An abandoned pump and steel pipe found on WS. A 6 ft x 8 ft concrete distribution box with a CMP found on LS. Box filled with soil. An abandoned crossing 7/24/2013 Same as last inspection 12/19/2013 Same as last inspection.

FIELD_STRUCT_DESC: 36 inch pipe, 21.7 ft invert below crown. O&M manual 136, revision May 2011.

FS Date: 1/3/2014 7:12:00 AM

Photo 1 of 1 : UCIP_5225.jpg



Landside view: concrete distribution box and pipe

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2014 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 02 Colusa Bypass			Right	2.20
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/12/2014 - 03/12/2014			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Colusa Bypass	Right	2.20	03/12/2014 03/12/2014	Bob Duffey

LM Start	0.01	Rating **	M	Issue No.	1
LM End	0.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.232058 °	39.232058 °
				-121.995514 °	-121.995514 °
DWR ID	DWR_ST0003_02_s_2012_1				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : rduffey_s_20140304_667.jpg



View of the elderberries along the landside toe of the levee.

LM Start	0.67	Rating **	A	Issue No.	2
LM End	0.67	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.231405 °	39.231405 °
				-121.983542 °	-121.983542 °
DWR ID	DWR_ST0003_02_s_2014_2				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : rduffey_s_20140317_123.jpg



View of the native grasses on both slopes.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2014 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 03 Colusa Bypass			Left	2.28
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/12/2014 - 03/12/2014			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Colusa Bypass	Left	2.28	03/12/2014 03/12/2014	Bob Duffey

LM Start	0.56	Rating **	A	Issue No.	1
LM End	0.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.237234 °	39.237234 °
				-121.983979 °	-121.983979 °
DWR ID	DWR_ST0003_03_s_2014_1				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : rduffey_s_20140317_124.jpg



View of the native grasses on both slopes.

LM Start	1.98	Rating **	M	Issue No.	10
LM End	1.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.244888 °	39.244888 °
				-121.965595 °	-121.965595 °
DWR ID	DWR_ST0003_03_s_2012_10				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : rduffey_s_20140304_668.jpg



View of the elderberries along the landside toe of the levee.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2014 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 04 Moulton Bypass			Right	0.30
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/13/2014 - 03/13/2014			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Moulton Bypass	Right	0.30	03/13/2014 03/13/2014	Bob Duffey

LM Start	0.02	Rating **	M	Issue No.	2
LM End	0.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.338141 °	39.338141 °
				-122.021852 °	-122.021852 °
DWR ID	DWR_ST0003_04_s _ 2012_2				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : rduffey_s_20140304_669.jpg



View of an elderberry bush by the waterside toe.

LM Start	0.09	Rating **	A	Issue No.	1
LM End	0.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.337842 °	39.337842 °
				-122.020587 °	-122.020587 °
DWR ID	DWR_ST0003_04_s _ 2014_1				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : rduffey_s_20140317_128.jpg



View of the native grasses on both slopes.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2014 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 05 Moulton Bypass			Left	2.00
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/13/2014 - 03/13/2014			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Moulton Bypass	Left	2.00	03/13/2014 03/13/2014	Bob Duffey

LM Start	0.77	Rating **	A/W	Issue No.	1
LM End	0.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.340822 °	39.340822 °
				-122.009453 °	-122.009453 °
DWR ID	DWR_ST0003_05_s _ 2013_1				
Action/Comments					
Repair the levee slope damaged by livestock and prevent large animal access.					

Photo 1 of 1 : rduffey_s_20140304_670.jpg



View of the damage to the levee caused by the landowners livestock on both slopes.

LM Start	0.77	Rating **	M	Issue No.	2
LM End	0.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.340822 °	39.340822 °
				-122.009452 °	-122.009452 °
DWR ID	DWR_ST0003_05_s _ 2013_2				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 1 : rduffey_s_20140304_671.jpg



View of the repaired rodent holes and bait station along the landside slope.

LM Start	0.85	Rating **	C	Issue No.	5
LM End	0.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.340213 °	39.340213 °
				-122.008113 °	-122.008113 °
DWR ID	DWR_ST0003_05_s _ 2012_5				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Moulton Bypass	Left	2.00	03/13/2014 03/13/2014	Bob Duffey

LM Start	0.94	Rating **	A	Issue No.	3
LM End	0.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.339594 °	39.339594 °
				-122.006605 °	-122.006605 °
DWR ID	DWR_ST0003_05_s _ 2014_3				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : rduffey_s_20140317_129.jpg



View of the native grasses on both slopes.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement